



Performance Data Sheet

AWG5522EXN

General Information

Model	AWG5522EXN	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	5580	4860					
	Watts	991	995					
	Amps	4.61	4.62					
	Lb/h	71.8	65.3					
-10	Btu/h	6930	6130	5350				
	Watts	1070	1080	1090				
	Amps	4.98	5.02	5.06				
	Lb/h	88.8	81.8	74.7				
-5	Btu/h	8410	7520	6650	5810			
	Watts	1150	1170	1180	1200			
	Amps	5.32	5.40	5.48	5.53			
	Lb/h	107	99.6	91.9	84.1			
0	Btu/h	10000	9040	8070	7140	6230		
	Watts	1220	1250	1270	1290	1310		
	Amps	5.64	5.76	5.88	5.97	6.04		
	Lb/h	127	119	111	102	93.5		
5	Btu/h	11800	10700	9630	8580	7570		
	Watts	1280	1320	1350	1380	1410		
	Amps	5.93	6.10	6.26	6.39	6.51		
	Lb/h	148	140	131	122	112		
10	Btu/h	13700	12500	11300	10200	9040	7930	6870
	Watts	1340	1390	1430	1470	1510	1540	1550
	Amps	6.20	6.41	6.62	6.80	6.96	7.08	7.17
	Lb/h	171	162	153	143	133	123	112
15	Btu/h	15700	14500	13200	11900	10600	9410	8210
	Watts	1390	1450	1510	1560	1600	1640	1670
	Amps	6.44	6.70	6.96	7.19	7.39	7.57	7.70
	Lb/h	196	186	177	166	156	144	132
20	Btu/h	18000	16600	15200	13800	12400	11000	9700
	Watts	1440	1510	1580	1640	1700	1750	1780
	Amps	6.64	6.97	7.27	7.56	7.82	8.04	8.22
	Lb/h	222	212	202	191	180	168	155

25	Btu/h	20400	18900	17400	15900	14300	12800	11300
	Watts	1480	1560	1640	1720	1790	1850	1900
	Amps	6.82	7.20	7.57	7.91	8.22	8.50	8.74
	Lb/h	250	241	230	219	206	194	180
30	Btu/h	23100	21400	19800	18100	16400	14800	13100
	Watts	1510	1610	1700	1790	1870	1940	2010
	Amps	6.96	7.41	7.83	8.24	8.61	8.95	9.24
	Lb/h	281	271	260	248	235	221	207
35	Btu/h	25900	24100	22300	20500	18700	16900	15100
	Watts	1530	1650	1750	1860	1950	2040	2120
	Amps	7.07	7.58	8.08	8.54	8.98	9.38	9.74
	Lb/h	314	303	292	279	266	252	236
40	Btu/h	29000	27000	25100	23100	21200	19200	17200
	Watts	1550	1680	1800	1920	2030	2130	2220
	Amps	7.15	7.73	8.29	8.83	9.33	9.80	10.2
	Lb/h	349	338	326	313	299	284	268
45	Btu/h	32200	30200	28100	26000	23800	21700	19600
	Watts	1560	1700	1840	1980	2100	2220	2330
	Amps	7.19	7.84	8.48	9.09	9.66	10.2	10.7
	Lb/h	386	375	362	349	334	319	302
50	Btu/h	35700	33500	31300	29000	26700	24400	22100
	Watts	1560	1720	1880	2030	2170	2300	2430
	Amps	7.19	7.92	8.64	9.32	9.97	10.6	11.1
	Lb/h	426	414	401	388	373	356	339
55	Btu/h	39500	37100	34700	32300	29800	27300	24800
	Watts	1550	1730	1900	2070	2230	2380	2530
	Amps	7.15	7.97	8.76	9.53	10.3	10.9	11.6
	Lb/h	468	456	443	429	413	396	378

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.730083E+04	1.083407E+03	5.053718E+00	1.797617E+02
C2	4.445126E+02	-2.385480E+00	-1.328028E-02	4.128450E+00
C3	-7.409592E+01	-9.849732E-01	-4.994360E-03	-5.398061E-01
C4	3.847458E+00	-2.529974E-01	-1.129019E-03	2.813811E-02
C5	-9.165121E-01	2.137698E-01	1.011445E-03	6.980078E-03
C6	-3.341100E-01	5.279538E-02	2.417932E-04	-1.619027E-03
C7	1.366401E-02	-3.426494E-04	-1.603511E-06	1.395693E-04
C8	-1.192326E-02	1.704652E-03	7.537426E-06	3.253753E-05
C9	-5.534816E-03	-1.910912E-04	-9.917183E-07	-9.286851E-05
C10	1.524086E-03	-2.415524E-04	-1.095922E-06	1.066904E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature